

5284

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

U. S. COAST & GEODETIC SURVEY
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JUL 18 1933
Acc. No.

State: New York

DESCRIPTIVE REPORT
5284
Tapegraphic } Sheet No. 3
Hydrographic }

LOCALITY

Hudson River

Grassy Point to Peekskill

1932

CHIEF OF PARTY

C. A. Egner

5284

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. 5284

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 3

REGISTER NO. **5284**

State New York

General locality Hudson River

Locality Grassy Point to Peekskill

Scale 1:10,000 Date of survey 9/26 to 9/30, 19 32

Vessel U. S. V. NATOMA and motor launch

Chief of Party C. A. Egner

Surveyed by C. A. Egner and J. T. Jarman

Protracted by C. R. Bush

Soundings penciled by A. W. Green

Soundings in ~~fathoms~~ feet

Plane of reference Arbitrary Hudson River data

Subdivision of wire dragged areas by _____

Inked by A. M. Uzefovich

Verified by A. M. Uzefovich

Instructions dated Continuation of 1930 work, 19 _____

Remarks: _____

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 3

REGISTER NO. 5284 (ADDITIONAL-WORK)

State New York

General locality Hudson River.

Locality Additional work off Montrose Point.

Scale 1:10,000 Date of survey Nov. 8, 1933 ~~1932~~

Vessel NATOMA and Launch.

Chief of Party C.A. Egner.

Surveyed by C.A. Egner and J.C. Sammons.

Protracted by

Soundings penciled by

Soundings in ~~positions~~ positions feet

Plane of reference Hudson River Datum.

Subdivision of wire dragged areas by

Inked by

Verified by

Additional work in accordance with
Instructions dated Paragraph #7 review of H 5284. ~~1932~~

Remarks:

R E P O R T
T O A C C O M P A N Y
H Y D R O G R A P H I C S H E E T
N O. 3 (F I E L D)

H U D S O N R I V E R P R O J E C T H T - 1 0 8

1 9 3 2

M. V. N A T O M A

C. A. E G N E R, C O M ' D G.

I N S T R U C T I O N S
A N D A U T H O R I T Y:

The work on this sheet was done as a part of the season's work on Combined Operations by the Motor Vessel NATOMA in the Hudson River from June to November 1932. Since it was a continuation of the 1930 work and executed under similar conditions, the Instructions for the previous work were considered to apply. Therefore, except in the case of Tidal Observations, the Instructions for which were dated June 18, 1932, no definite Instructions govern the area surveyed this year.

L I M I T S:

Joins sheet No. 2 at Grassy Point, extends northward to a point opposite Peekskill where it joins Sheet No. 4. The scale is 1:10,000. ^{H-5183} _{H-5185}

M E T H O D S:

The greater portion of this sheet was done by the ship, running channel lines with the current. The channel is quite deep and the sides are abrupt, running into deep water a short distance off of the beach on both sides. This left a narrow strip along the shore to be filled in by the launch, which also did the work in the

small bays just south of Verplanck and Stony Point. The launch ran lines normal to the shore or parallel to it which ever way proved to be the more economical in developing the bottom accurately.

The work was all done with the hand lead. Though the water was deep in places the extremely slow speed at which it was done permitted good vertical casts at all times.

CONTROL:

Control was abundant due to many triangulation stations located for photo control which included stacks, etc., and to topographic signals located by intersection. These were all well located since no traverses were run by the topographer. Likewise, the narrowness of the river permitted signals to be used on either side.

TIDES:

Tide gages at Peekskill (Standard Automatic) and Haverstraw (Portable Automatic) controlled the tidal reductions on this sheet.

The data for the Haverstraw gage was determined by simultaneous comparison with the Peekskill gage.

An arbitrary line (see boat sheet) was drawn opposite Verplanck dividing the area between these two gages.

DANGERS:

There were no dangers discovered on this sheet.

CHANGES:

Changes of an artificial nature only were noted, particularly new construction of docks at the trap rock plant at Tompkins Cove, the ruins of the old docks at Verplanck and of new Day Line S.S. Co., docks and parks between Verplanck and Peekskill.

The only commercial importance noted throughout this sheet is that of large trap rock and lime plants at Verplanck and Tompkins Cove. The faces of the docks were sounded.

Surveyed by:

C. A. Egner, Commanding Officer, was in charge of the ship hydrography. J. T. Jarman, Aid, was in charge of the launch hydrography.


STATISTICS:

Statute miles of soundings	102.1
Number of soundings	3035
Number of positions	781

TIDAL DATA:

Tidal data was forwarded to the Office on February 3 and 11, 1933.

Respectfully submitted,


C. A. Egnor
Hyd. & Geod. Engineer,
Commanding M. V. NATOMA.

HYDROGRAPHIC STATISTICS

HUDSON RIVER, NEW YORK

SHEET NO. 3

DATE 1932	DAY	VOLUME	BOAT	STATUTE MILES SOUNDINGS	NUMBER OF SOUNDINGS	NUMBER OF POSITIONS
9/26	a	1	Launch	5.8	234	59
9/27	b	1	"	14.6	563	144
9/28	c	1	"	14.6	549	134
10/4	d	1	"	8.0	290	76
10/4	d	2	"	6.0	223	54
10/17	c	3	"	0.5	129	9
9/29	A	1	Ship	27.6	517	148
9/30	B	1	"	25.0	530	157
		TOTALS		102.1	3035	781

August 16, 1933.

Division of Hydrography and Topography:

✓ Division of Charts:

Tide reducers are approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 5284

Locality Grassy Point to Peekskill, Hudson River, N.Y.

Chief of Party: C. A. Egner in 1932

Plane of reference is Hudson River Datum (mean low water during lowest river
1.7 ft. on tide staff at Haverstraw stages(reading
6.7 ft. below B. M. 1

4.1 ft. on tide staff at Peekskill
11.5 ft. below B.M. 4

Height of mean high water above plane of reference is 3.0 ft.

Condition of records satisfactory except as noted below:

Harry Manner
Chief, Division of Tides and Currents

Section of Field Records

Report on H-5284

Chief of Party C.A. Egner

Protracted by C.R. Bush

Verified and inked by A.M. Uzefovich

Surveyed by C.A. Egner and J.T. Jarman

Soundings plotted by A.W. Green

1. The records conform to the requirements of the General Instructions.
2. Depth curves are completely drawn.
3. The field plotting was completed to the extent prescribed in General Instructions.
4. The office draftsman did not have to do over any part of the drafting done by the field party, except small improvement of shore line, according to the Topo. sheet N^o 4703, near signals HEN and FORT.
5. The junctions with adjacent sheets H-5283 and H-5285 have not been verified.
6. Remarks: The symbol of rock * (east of shore, between \odot TREE and \odot WOOD) is not shown on Boat sheet, nor Topo. sheet. There is no information about it in descriptive report, nor in soundings volume. This symbol was inked by Field Party. Also I was not be able to find any information about signals FOOD, ^{islet} ~~MIA~~, ^{pile} ~~OUT~~ and EDGE ^{+SAP} placed in water of Hudson River.
7. The quality of the work is good.

Respectfully submitted

Alexis M. Uzefovich

Oct. 10. 1933

SECTION OF FIELD RECORDS

Review of Hydrographic Sheet No. 5284.
Grassy Pt. to Peekskill, Hudson River, New York. .
Surveyed in 1932
Hand lead soundings.
Instructions dated June 18, 1932 (Natoma).

Chief of party - C. A. Egner.
Surveyed by - C. A. E., J. T. Jarman.
Protracted by - C. R. Bush.
Soundings plotted by - A. W. Green.
Verified and inked by - A. M. Uzefovich.

1. The records conform to the requirements of the Hydrographic Manual. Signals Food, Edge and Sap fall outside the shoreline. In the list and description of signals, filed in the descriptive report of Top. 4703, these signals were marked N. R. but what sort of an object they were located on was not stated.
2. This work was continued under the previous seasons instructions and no supplemental instructions govern the area surveyed. The instructions of June 18, 1932, refer only to Tidal Observations.
3. The sounding line crossings within this sheet are generally satisfactory.
4. The information is sufficient for completely drawing the usual depth curves.
5. The junction on the north with H. 5285 is adequate and the soundings agree well with the exception of two soundings. A 62 ft. sounding on pos. 61 B is deeper than the adjacent soundings on H. 5285 and has been omitted. A 40 ft. sounding on pos. 22 A is shoaler than the surrounding depths on H. 5285 and falls outside the 60 ft. curve. Pos. 22 A is believed to be incorrect as the line from Pos. 21 A to Pos. 22 A does not check with the ships course as given in the records. This sounding will be further examined by the field party.

The junction on the south with H. 5283 is satisfactory.

6. Previous Work.

The old surveys of 1854, H. 458 and H. 459 compare fairly well with the new work. In some places there are shoaler depths on the old surveys, but these are thought to be unreliable because of the character of the control, the faulty tide reducers and the remoteness of the surveys. No soundings should be selected within this area from those sheets for charting.

The surveys of 1901 and 1903, H. 2564 and H. 2564a also compare fairly well with the new work. These sheets may now be generally superseded, but a few soundings shoaler than the new work have been added to H. 5284 in color, so that the recent survey, H. 5284, may now be used as the basic survey of this area.

7. The ground on this sheet has been well covered and the shoal develop-

ment is generally sufficient, however since the boatsheets of these sheets are to be returned to the field in order to clear up any doubtful points, it is recommended that the following items be reported on.

- a. A sounding of 40 ft., on pos. 22 A in Lat. $41^{\circ}-16'.85$, Long. $73^{\circ}-56'.85$.
(See page 5)
- b. A rock awash shown on Chart 282 in approximate Lat. $41^{\circ}-16'.6$, Long. $73^{\circ}-56'.7$. This rock was placed on the chart by authority of a note by J. T. Watkins. (See standard of Chart 282 dated Feb. 1908). As this rock is not shown on the new work, its existence should be verified or disproved.

See
Addenda
Review
H-5285

c. On the east shore, south of signal C oal, off Verplanck there is a line of small dots which probably represents piling but they have not been so marked on the Hyd., Top. or boatsheet and there are no notes in the sounding records regarding them. State if these are piles.

d. No information was furnished as to what the following signals which are outside the shoreline, were located on. Signal Edge, in Stony Pt. Bay signal Food in Greens Cove and signal Sap north east of Lents Cove. State what these objects were.

e. A rock awash is shown on Chart 282 off Montrose Pt. in Lat. $41^{\circ}-14'.2$, Long. $73^{\circ}-57'.1$. This rock was put on the chart from Top. 1472 and is further confirmed by a sounding on H. 2564a. Verify or disprove the existence of this rock.

f. A rock awash symbol was inked on the smooth hydrographic sheet by the field party about 100 meters south of signal Tree in Stony Pt. Bay. This rock is of little importance but would like to know if it is correctly shown since no authority for it was found on the topo. sheet, boatsheet or sounding records.

8. Reviewed by - R. L. Johnston.

Recommend reference to Chief of Party for additional information.

L. O. Colbert
L. O. Colbert,
Chief, Field Records Section.
J. B. Borden
Chief, Field Work Section.

Examined and approved:

E. W. Bagnall
Chief, Division of Charts.
G. H. Hude
Chief, Division of H. & T.

5284

Add'l WORK

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R.S. Patton., Director

State: NEW YORK

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 3 5284
Hydrographic }

LOCALITY

Hudson River.

Additional work off Montrose Pt.

1933

CHIEF OF PARTY

C.A. Egner.

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

DEC 19 1933

Acc. No. _____

5284

DESCRIPTIVE REPORT OF ADDITIONAL WORK

DONE ON HYDROGRAPHIC SHEET NO. 5284.

DESCRIPTIVE REPORT OF ADDITIONAL WORK

DONE ON HYDROGRAPHIC SHEET NO. 5284

This report covers the additional work done on hydrographic sheet #5284. This work was done in accordance with Paragraph #7 of the review of the sheet. Unfortunately the instructions for this work arrived near the close of the season's work in this locality and all the tide gages had been removed from the river. As this additional work consists largely of verifying previous work rather than further development of the work, it was not considered necessary to install tide gages and connect them to bench marks by levels.

Item (a) Paragraph 7 of the review calls for an examination to be made of a 40-foot sounding at the junction of this sheet with sheet #5285. This sounding was investigated and proven to be an error by the work done on sheet #5285 and is described in the report of additional work done on that sheet.

Item (b) Paragraph 7; rock awash on old chart, 282, authority of J. T. Watkins.

Thorough sounding at this point failed to reveal any such rock. It is recommended that it be removed from the chart.

Item (c) Paragraph 7.

This line of small dots represent piles.

Item (d) Paragraph 7.

Food - Signal Edge is a dolphin (cluster of piling).
Signal Fred is a flag on a sunken barge.
Signal Sap is a dolphin (cluster of piling).

Item (e) Paragraph 7.

Extensive sounding over this point failed to reveal this rock. It should be removed from the chart.

Item (f) Paragraph 7.

This rock awash is a pile of rocks, apparently part of an old dock, though the covering and approach is now gone leaving a shallow channel between it and the beach. It is too close to the beach to be a menace. It apparently was not seen at high tide by the topographer.

Respectfully submitted,

JACK C. SAMMONS

Jack C. Sammons, *by G.E.*

H. & G. E.,

U.S.C. & G. Survey.

Approved and Forwarded:

C. A. Egner
C. A. Egner,
H. & G. E.,
Chief of Party.

December 20, 1933

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in

1 volume^s of sounding records for

HYDROGRAPHIC SHEET 5284 (Additional Work)

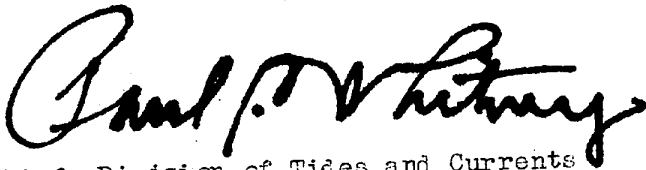
Locality Off Montrose Point, Hudson River, N. Y.

Chief of Party: C. A. Egner in 1933

Plane of reference is Hudson River Datum (Mean low water during lowest river stages).
ft. on tide staff at
ft. below B. M. (Used Predicted Tides)

Height of mean high water above plane of reference is 3.0 ft.

Condition of records satisfactory except as noted below:


Chief, Division of Tides and Currents

Section of Field Records.
(Additional Work)

Report on # 5284 Surveyed by { J.C. Sammons &
Chief of Party C.A. Egner. { J.C. Buel.
Sounded & Plotted by Mr. Jeskeind
Protected by Mr. Jeskeind
Verified & Inked by Mr. Jeskeind

The additional development, north of
Lento Cove and off Montrose Point, show
no indication of the charted rocks awash.

The Ls (Pos. 14a & 15a) furnished to locate
the sunken barge on which O Flood is ^{supposed to be} located
do not check the position of the barge as shown
on the boat sheet.

Respectfully submitted,
Mr. Jeskeind

The day letters for the additional work are
in green & the soundings in black.

SECTION OF FIELD RECORDS
Review of Hydrographic Sheet No. 5284 (Additional Work).

Surveyed in 1933.

The additional work on this sheet was done by authority of par. 7 of the original review of H. 5284. This review deals only with the additional work and the letters on the items correspond to the letters of the items in par. 7 of the original review and also to the items in the descriptive report of the additional work of 1933.

Item (a) The examination of a 40 foot sounding at the junction of this sheet with H. 5285 called for is plotted on H. 5285. The development was not sufficient to remove this sounding and it has been retained in its original position. *See Addenda Review H. 5285*

Item (b) A rock awash shown on Chart 282, just north of Lents Cove, in approximate Lat. $41^{\circ}16'.6$, Long. $73^{\circ}56'.7$, was charted by authority of a note on the standard of Chart 282 dated Feb. 1908. Additional sounding lines were run in this locality at a time when there was $1\frac{1}{2}$ ft. of tide. The search failed to reveal any indication of a rock and the removal of this rock symbol from the chart is now recommended.

Item (c) Additional information was furnished regarding a line of piles off Verplanck. No recommendation needed.

Item (d) Additional information was furnished as to what objects certain signals, in water areas, were located on. Signal "Food", in Greens Cove, was said to be a flag on a sunken barge and two positions were furnished, (pos. 14a and pos. 15a) locating the ends of the barge. When the position of the barge is plotted by these fixes, signal "Food" falls outside of its limits. As it is possible the barge may have moved since the topography was done, it is shown as determined by the angles although it does not check the position shown on the boatsheet. This discrepancy should have been noted in the ~~files~~ field.

No recommendation is needed.

Item (e) An investigation was asked of the rock awash shown on Chart 282, off Montrose Pt. in Lat. $41^{\circ}14'.2$, Long. $73^{\circ}57'.1$. This rock was charted from Top. 1472 and is partially confirmed by a sounding on H. 2564a. The field party ran a number of sounding lines over the supposed position of this rock at a time when there was $2\frac{1}{2}$ feet of tide, without finding any indication of it. It seems probable that the rock is part of the rocky ledge a little further inshore and the removal of the rock awash symbol from Chart 282 is recommended.


Item (f) Information was furnished about a rock awash symbol, close inshore in Stony Bay, about 100 meters south of signal Tree. The rock symbol is said to represent a pile of rocks which were part of an old dock but are too close inshore to be dangerous.

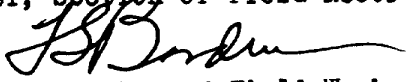
H. 5284 (Additional Work) - 2.

No recommendation necessary.

No further additional work is required.


Reviewed by R. L. Johnston - January 4, 1934.


L. O. Colbert,
Chief, Section of Field Records.


Chief, Section of Field Work.

Examined and approved:


Chief, Division of Charts.


Chief, Division of H. & T.

6 copies

APPLIED TO ALUMINUM-MOUNTED DRAFTING OF THE
RECONSTRUCTION OF CHART No. 282

J. M. Albert

Dec. 1934

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. ~~5284~~ 5284

The following statistics will be submitted with the
cartographer's report on the sheet:

Number of positions on sheet	..781.
Number of positions checked63
Number of positions revised9
Number of soundings recorded	.3035
Number of soundings revised17
Number of signals erroneously plotted or transferred

Date: Oct. 9, 1933

Cartographer: Alexis M. Uzevovich